

## MAIN INSTALLATION CHECKLIST

Unless otherwise noted, all code references are to 49CFR Part 192.

If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

Operator: AMEREN ILLINOIS COMPANY	Operator ID#: 32513
Inspection Date(s): 10/1/2014, 10/2/2014	Man Days: 2
Inspection Unit: Peoria Persimmon St.	
Location of Audit: Pekin	
Exit Meeting Contact: John Sigler	
Inspection Type: Design Testing and Construction	
Pipeline Safety Representative(s): Kevin Hecker	
Company Representative to Receive Report: Michael Fuller	
Company Representative's Email Address: mfuller2@ameren.com	

CONSTRUCTION INFORMATION		
Location of Construction: Pekin		Construction Performed By: Intercon Construction
Contractor Foreman:	Jeff Jones	
Operator Inspector:		
Person(s) On Job Site		
Jeff Jones	James Moran	Josh Bass
Ron Schutt	Warren Curtis	Andy Smith
Jimmy Williams	Chris Dougherty	Rob Stewart
-	-	-
Description of Construction: The phase of the project observed for this audit includes a new 4 miles section of 16" welded steel transmission pipeline in the Pekin, IL area. The south end of the pipeline began at a take point just north of Keller Road (just east of Mennonite Church Road) running north on the easement of the existing Ameren "400" line, under highway 9 between Tremont and Pekin, and continues north through farm ground, up to Sheridan Road (just east of California Road) in Pekin.		

MAIN INSTALLATION		Status
[192.55]	Steel	Yes
[192.59]	PE	No
[192.59]	Other	No
[192.5]	Class location :	Class 1
[192.619,192.621,192.623]	MAOP	800 psig

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[192.63]	Pipe Size :	16"
[192.55,192.59]	Specification :	API 15L
[192.55,192.59]	Manufacturer :	TMK IPSCO
[192.55,192.59]	Pipe Grade :	X-52
[192.55,192.59]	Wall Thickness :	.312"
[192.63(a)(2)]	Are pipe, valves, and fittings properly marked for identification?	Satisfactory
[192.227]	Date of Welder qualification:	See below
<b><u>General Comment:</u></b>  There were six welders observed during this audit. Below are their names, employee numbers and qualification dates:  Andy Smith #3587 9/3/14 Warren Curtis #9098 8/22/14 Rob Stewart #0119 8/22/14 Chris Dougherty #9252 8/15/14 Jimmy Williams #5050 8/15/14 Ron Schutt #9847 7/2/15		
[192.227]	Welder's Name:	See above
[192.225,192.275,192.277,192.279,192.283]	Is pipe joined in accordance with approved written procedures?	Satisfactory
<b><u>General Comment:</u></b>  Welders were following Ameren's procedure #ENE-002.  Ron Schutt and Warren Curtis were performing the tack and root pass welds.  Andy Smith, Jimmy Williams, Chris Dougherty and Robert Stewart were performing filler and cap pass welds.		
[192.285]	Date of Plastic Joining Qualification :	Not Applicable
<b><u>General Comment:</u></b>  No plastic pipe was utilized during this audit.		
[192.285]	Joiner's name:	Not Applicable
<b><u>General Comment:</u></b>  No plastic pipe was utilized during this audit.		
[192.455]	Is buried metallic pipe coated?	Satisfactory
[192.461]	Does coating meet 192.461?	Satisfactory
[192.455(a)(1)]	Is cathodic protection being provided?	Satisfactory
[192.455(a)(1)]	Is cathodic protection being provided? By Anodes:	No
[192.455(a)(1)]	Is cathodic protection being provided? By Rectifier:	Yes
[192.461(c)]	Is coating inspected just prior to being installed in the ditch?	Not Checked
<b><u>General Comment:</u></b>		

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<i>No pipe was placed in the ditch during this audit.</i>		
[192.467]	Are pipelines electrically isolated from other underground metallic structures?	<b>Satisfactory</b>
[192.479]	Are above ground facilities cleaned and coated or jacketed as needed?	<b>Not Checked</b>
<b><u>General Comment:</u></b> <i>No above ground facilities were installed during this audit.</i>		
[192.303]	Are comprehensive written construction specifications available and adhered to?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed plans for the entire project with Jeff Jones at the start of the audit.</i>		
[192.305]	Are inspections performed by the operator to check adherence to the construction specifications?	<b>Satisfactory</b>
[192.307]	Is material being visually inspected at the site of installation to ensure against damage that could impair its serviceability?	<b>Satisfactory</b>
[192.319]	Is ditch back-filled to provide firm support and prevent damage to pipe or coating?	<b>Not Checked</b>
<b><u>General Comment:</u></b> <i>No pipe was placed in the ditch during this audit.</i>		
[192.321(c)]	Is plastic pipe installed as to minimize shear and tensile forces?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>No plastic pipe was observed as part of this construction project.</i>		
[192.321(e)]	Does plastic pipe have means of locating while underground?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>No plastic pipe was observed as part of this construction project.</i>		
[192.325]	Are required clearances from underground structures being maintained?	<b>Not Checked</b>
<b><u>General Comment:</u></b> <i>No pipe was placed in the ditch/buried during this audit.</i>		
[192.327]	Is required cover being obtained appropriate to type of pipeline and location?	<b>Not Checked</b>
<b><u>General Comment:</u></b> <i>No pipe was placed in the ditch/buried during this audit.</i>		
[192.503]	Are general testing requirements being met?	<b>Satisfactory</b>
[192.517]	Are records being made of strength and leak tests?	<b>Not Checked</b>

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<b><u>General Comment:</u></b>		
<i>Staff did not observe strength or leak tests on the transmission pipeline. A section of 4" tie-in pipe as well as a fabricated riser was pressure tested to 1260 psi using nitrogen. This test was not conclusive or recorded because there were minor leaks detected on 2 gauge fittings. More nitrogen was ordered to conduct the test once gauge fittings rated for higher pressure were installed.</i>		
[192.807]	Were covered employees Operator Qualification records reviewed to ensure qualification?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>Staff reviewed copies of qualifications for all 6 welders, as well as 2 x-ray technicians from JANX.</i>		
[192.805(c)]	Were non-qualified personnel being directed and observed by a qualified individual?	<b>Not Applicable</b>
<b><u>General Comment:</u></b>		
<i>There were no non-qualified individuals performing covered tasks observed during this audit.</i>		
[192.805(c)]	Were span of control limitations being followed?	<b>Not Applicable</b>
<b><u>General Comment:</u></b>		
<i>There were no non-qualified individuals performing covered tasks observed during this audit.</i>		
Was a Protocol 9 (Form 15) Completed?		<b>No</b>
[192.614]	Were One Call Notifications performed as required?	<b>Satisfactory</b>
[192.614]	Dig Ticket #	<b>Not Checked</b>
<b><u>General Comment:</u></b>		
<i>Staff did not request dig tickets for this project.</i>		
[192.751]	Are adequate steps taken to minimize the potential for accidental ignition?	<b>Not Applicable</b>
<b><u>General Comment:</u></b>		
<i>This pipeline was new construction, therefore no gaseous atmosphere was present at any time during this audit.</i>		
[192.719(b)]	Was each repair made by welding to a transmission line made in accordance with 192.713, 192.715, and 192.717 and examined in accordance with 192.241?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>Staff observed technicians from JANX NDT x-raying welds on a 500 foot section of pipeline south of Route 9 between Pekin and Tremont. Technicians present were: James Moran and Josh Bass. Of the 512 welds thus far completed on the project, 17 showed deficiencies on the x-ray and were repaired. Staff requested and reviewed 4 example x-rays of defective welds and confirmed the repairs were completed by reviewing the "after" x-rays. In all 4 cases, there were indications of "wagon tracks" on the initial x-rays and were not present after being ground out and rewelded.</i>		

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